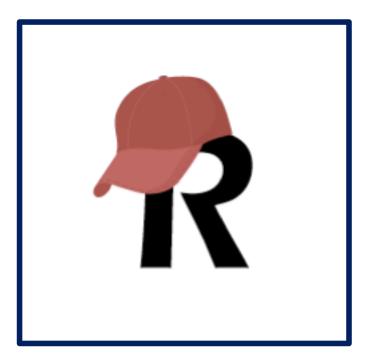
REDCap Advanced Surveys (RC-304)

REDCap Research Electronic Data Capture

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Learning objectives

- Advanced survey setup
- Distribution
- Management
- Example of uses
- Twilio (texting)
- Action tags
- Best practices



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What is a survey in REDCap terms?

A different way of doing data entry in your project



General survey models

Simple single survey (Covered in the "Intro to REDCap survey" class)

- Quick and easy to setup
- Single record per response
- Great for getting started with surveys

Chained surveys

(Covered in the "Intro to REDCap survey" class)

- Link multiple surveys together
- "Skip" over certain surveys
- Multiple survey responses linked to a single record

Longitudinal surveys

- Longitudinal mode turned on
- Repeat the same survey in multiple events
- Multiple survey responses per event per record
- Takes a bit more time and testing to setup
- Great for longer term studies



Uses

Setup

Distribution



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Example Uses for longitudinal surveys

- Multiple timepoints data collection
 - Clinical studies
 - Pre and post surveys
- Registration and review surveys
- Projects with:
 - Limited FTE
 - Large participant numbers
 - Low frequency

Uses

Setup

"To:" Email

Crafting your message

Triggering invites

Timing

Distribution



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Setup steps for longitudinal surveys

- Builds on the simple survey and chained survey examples
- Define per event how you want your surveys to run
- First event works similarly to a chained survey
- The first survey in any follow up events can and will have to get distributed in different ways:
 - Manually (e.g. in-clinic)
 - Via email invite (or automated survey invitations aka ASI)
 - Via text invite
- After the initial survey in each event, you can have your participant run through the surveys via autocontinue or survey queue.

Uses

Setup – Auto Invitations

"To:" Email

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Distribution



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Setup ASI – "To" emails

- REDCap needs to know where to send an invitation
- Defined in one of two places:
 - Participant list
 - Use when you a list of emails beforehand
 - Define email (found in project setup)
 - Use when you don't know emails upfront
 - Needs to be a text field with an email validation
 - Simply calling it "email" is not enough
 - Only 1 email per record allowed

Uses

Setup – Auto Invitations

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Setup ASI – Crafting your message

- Select a "From" email
 - You can add up to 3 emails to your account
- Define a subject line
 - Short and to the point is the best
- Define the invitation body
 - REDCap will add the a links automatically at the bottom of the page
 - HTML is allowed
 - Logo's or hyperlinks
 - Piping is allowed and encouraged
 - Try at least to add someone's name
 - Helps with the spam filters

Uses

Setup – Auto Invitations

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Setup ASI – Triggering invites

- REDCap schedules an invite the moment the defined trigger becomes true
- Three main ways of triggering similar to survey queue
 - Survey completion
 - e.g. After consent survey is completed
 - Branching logic
 - e.g. After consent equals yes ([consent]=1)
 - Combination of the two
 - e.g. After the consent survey is completed and consent equals yes
- Bonus: Ensure logic is still true upon send
 - Advanced feature that has some interesting applications.

Uses

Setup – Auto Invitations

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Setup ASI – Timing

- Two points of timing:
 - Initial survey invitation
 - Specific date and time
 - After a specific interval of time (from the moment of trigger)
 - "On the next ..."
 - Reminders
 - Up to 5 reminders
 - Set schedule (every 3 days, mondays)
 - Remaining reminders get deleted when their survey is completed
- Pro tip: send things on Tuesday morning 7 a.m.

Uses

Setup

Distribution

Fire and Forget

Fuzzy triggers

Kill switches

Interplay with repeatable forms



triggers

- Single trigger point model
 - i.e. everything gets scheduled based on 1 trigger but with different delays
- Cascading model
 - Each survey completed triggers another

Distribution – Fire & Forget

- Setup your entire project to "run" itself with minimal oversight
- Great for projects with limited manpower or that run for a long time
- Build all your ASI's with survey complete and logic triggers

Uses

Setup

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Fire and Forget

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Distribution – Fuzzy triggers

- You want to automate things, but you don't know upfront when certain events take place
 - e.g. Trigger a set of surveys after a ED visit
 - e.g. Trigger surveys after a child has had a concussion in a football match
- Instead of survey complete trigger, you trigger things of a variable.
 - Build a special form that contain those triggers
 - Checkboxes for immediate triggers
 - Date variables for fuzzy time triggers
 - e.g. Send survey 2 weeks before visit
 - Filled out by study personnel
 - Allows for more control

Uses

Setup

Distribution

Fire and Forget

Fuzzy triggers

Kill switches

Interplay with repeatable forms



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Distribution – Kill Switches

- Flip side of a fuzzy trigger
- Disables scheduled surveys and reminders
- Build a special form (can be combined)
- Add branching logic to the ASI
 - ▶ e.g. [kill(1)]<>1
 - Turn on "Ensure logic is still true"
- Has to be managed by study personnel
- Secondary use:
 - "Reset" your survey invitations
 - Update invite text
 - REDCap auto filters completed surveys

Uses

Setup

Distribution

Fire and Forget

Fuzzy triggers

Kill switches

Interplay with repeat forms



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Distribution – Repeatable forms

- Repeatable form functionality is still very new
- You can't setup ASI's for repeatable events (yet)
- You can have respondents repeat the same survey over and over
- Setting is located in the survey settings of a survey, but only after you made the survey repeating
- Use at your own risk
 - Recommendation: Test, test and test again

Gift cards Models

Gift cards are tricky

- Potential for scamming is high
- Build in at least one manual step
- Talk to us if you want more advice

Setup

- Create a "gift card" instrument
- Includes read only gift card field plus instructions
- Setup ASI to send out when gift card field is not empty

Running a gift card model

- Tell your respondents that you will distribute the gift cards at a set time, but not instantaniously
- Build a report that displays all records eligible for a gift card, but that haven't had one yet
- Download the report in csv raw format, plug in codes and reupload with the data import tool



Texting & Robo-calling

Twilio

- Send invites as text via a third party service (www.twilio.com)
- Will have to create an account with Twilio
- Costs money (<u>https://www.twilio.com/sms/pricing</u>)

Texting / Robo calling options

- Send survey link via text
- Start survey as robo-call
- Send text to invite to robo call (respondent calls to start survey)
- Send text to invite to robo call (service calls when respondent replies by text)
- Send survey as text conversation (inherently unsecure)

Setup

• Found in the project setup page



Action Tags

Useful Action tags for surveys

- @HIDDEN-SURVEY
 - Handy for markup by study team
- @READ-ONLY
 - For displaying preloaded data
- @LATITUDE & @LONGITUDE
 - For capturing someones location
- @NOW & @TODAY
 - For creating a "start" time stamp
 - Often combined with @HIDDEN
- @NONEOFTHEABOVE
 - To create an option in a checkbox that unchecks all other options
- @RANDOMORDER
 - To circumvent "multiple choice" bias
- @HIDECHOICE
 - To update options in an active survey

